

## Standards Actions August 2003

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Program Web Site at  
<http://tis.eh.doe.gov/techstds/>



### DOE Technical Standards Program Document Status

07-31-2003

#### Activity Summary

In Conversion – 4

In Preparation – 52

Out for Comment – 34

Published this Month – 2



#### 5-year Review Status

Revision in Progress – 11

Reaffirmation in Progress – 9

Cancellation Pending – 19

Cancellation in Progress – 4

No Current Action – 0

# STANDARDS ACTIONS



## DOE Technical Standards

There were no new projects registered, draft documents released for review, or approved documents issued for use during the month of July.

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies (no hardcopies are produced) are available on the ANSI Web site at [http://web.ansi.org/rooms/room\\_14/](http://web.ansi.org/rooms/room_14/). Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or [sbose@ansi.org](mailto:sbose@ansi.org).

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112; phone 800-854-7179; fax 303-397-2740, [global@ihs.com](mailto:global@ihs.com), <http://global.ihs.com>. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a more extensive listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Web site, <http://www.ansi.org>, or through the National Standards System Network, <http://www.nssn.org>.

The following American National Standards are currently in coordination (comment due dates follow each entry):

- AISC N690L-200x, *Load and Resistance Factor Design Specification for Safety-Related Steel Structures for Nuclear Facilities* (new standard) – September 1, 2003.
- ANS 14.1-200x, *Operation of Fast Pulse Reactors* (revision of ANSI/ANS 14.1-1975 (R2000)) – August 26, 2003.
- ASME B73.2M-200x, *Specifications for Vertical In-Line Centrifugal Pumps for Chemical Process* (revision of ANSI/ASME B73.2M-1991 (R1999)) – September 2, 2003.
- ASME BPVC Revision-200x, *ASME Boiler and Pressure Vessel Code* (revision of ANSI/ASME BPVC Revision: 2001 Edition) – August 11, 2003.
- ASME MFC-1M-200x, *Glossary of Terms Used in the Measurement of Fluid Flow in Pipes* (revision of ANSI/ASME MFC-1M-1991 (R1997)) – August 26, 2003.
- ASQ Z1.4-200x, *Sampling Procedures and Tables for Inspection by Attributes* (revision of ANSI/ASQC Z1.4-1993) – August 11, 2003.

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- ASTM E105-200x, *Practice for Probability Sampling of Materials* (revision of ANSI/ASTM E105-1997) – August 25, 2003.
  - ASTM E329-200x, *Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction* (revision of ANSI/ASTM E329-2002a) – August 25, 2003.
  - ASTM E699-200x, *Standard Criteria for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating Building Components in Accordance with Test Methods Promulgated by ASTM Committee E-6* (revision of ANSI/ASTM E699-199x) – August 23, 2003.
  - ASTM E2281-200x, *Practice for Process and Measurement Capability Indices* (new standard) – August 25, 2003.
  - AWS D15.2-200x, *Recommended Practice for the Welding of Rails and Related Rail Components for Use by Rail Vehicles* (revision of ANSI/AWS D15.2-1994) – August 26, 2003.
  - AWS D16.1M/D16-200x, *Specification for Robotic Arc Welding Safety* (new standard) – September 23, 2003.
  - C136.26-200x, *Roadway and Area Lighting Equipment – Trouble-Shooting Guide for High-Pressure Sodium Luminaires* (new standard) – September 23, 2003.
  - EIMA 01-B DRAFT #4-200x, *Technical Guide for Exterior Insulation and Finish System (EIFS)* (new standard) – September 23, 2003.
  - IEEE 1082-1998 (R2003), *Guide for Incorporating Human Action Reliability Analysis for Nuclear Power Generating Stations* (reaffirmation of ANSI/IEEE 1082-1997) – September 2, 2003.
  - IEEE 1193-2003, *Guide for Measurement of Environmental Sensitivities of Standard Frequency Generators* (revision of ANSI/IEEE 1193-1994) – September 2, 2003.
  - IEEE 1547-2003, *Standard for Interconnecting Distributed Resources with Electric Power Systems* (new standard) – September 2, 2003.
  - IEEE C37.106-2003, *Guide for Abnormal Frequency Protection for Power Generating Plants* (revision of ANSI/IEEE C37.106-1986 (R1993)) – September 2, 2003.
  - N14.29-200x, *Radioactive Materials – Guide for Writing Operating Manuals for Packaging* (new standard) – September 16, 2003.
  - NFPA 45-200x, *Standard on Fire Protection for Laboratories Using Chemicals* (revision of ANSI/NFPA 45-2000) – October 10, 2003.
  - NFPA 70-200x, *National Electrical Code* (revision of ANSI/NFPA 70-2002) – September 2, 2003.
  - NFPA 91-200x, *Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids* (revision of ANSI/NFPA 91-1998) – October 10, 2003.
  - NFPA 241-200x, *Standard for Safeguarding Construction, Alteration, and Demolition Operations* (revision of ANSI/NFPA 241-2000) – October 10, 2003.
  - NFPA 405-200x, *Recommended Practice for the Recurring Proficiency Training of Aircraft Rescue and Fire Fighting Services* (revision of ANSI/NFPA 405-1999) – October 10, 2003.
  - NFPA 430-200x, *Code for the Storage of Liquid and Solid Oxidizers* (revision of ANSI/NFPA 430-2000) – October 10, 2003.
  - NFPA 780-200x, *Standard for the Installation of Lightning Protection Systems* (revision of ANSI/NFPA 780-1997) – October 10, 2003.
  - NFPA 1250-200x, *Recommended Practice in Emergency Service Organization Risk Management* (revision of ANSI/NFPA 1250-2000) – October 10, 2003.
  - NSF 60-200x, *Drinking Water Treatment Chemicals – Health Effects* (revision of ANSI/NSF 60-2002) – September 8, 2003.
  - NSF 61-200x, *Drinking Water System Components – Health Effects* (revision of ANSI/NSF 61-2000) – September 8, 2003.
  - UL 294-200x, *Access Control System Units* (revision of ANSI/UL 294-1993) – August 11, 2003.
  - UL 407-200x, *Manifolds for Compressed Gases* (revision of ANSI/UL 407-1995) – August 23, 2003.
  - UL 467-200x, *Grounding and Bonding Equipment* (revision of ANSI/UL 467-1998) – August 11, 2003.
  - Z400.1-200x, *Hazardous Industrial Chemicals – Material Safety Data Sheets – Preparation* (revision of ANSI Z400.1-1998) – August 23, 2003.
- The following American National Standards have been approved for publication.** Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900. (Publication is to take place within six months following the date shown.)
- ANSI Z87.1-2003, *Practice for Occupational and Educational Personal Eye and Face Protection* (revision of ANSI Z87.1-1989 (R1998)) – June 19, 2003.
  - ANSI/ANS 16.1-2003, *Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure* (new standard) – July 7, 2003.

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- ANSI/ASSE Z590.2-2003, *Criteria for Establishing the Scope and Functions of the Professional Safety Position* (new standard) – June 19, 2003.
- ANSI/ASTM D975-2003, *Specification for Diesel Fuel Oils* (revision of ANSI/ASTM D975-2002) – May 10, 2003.
- ANSI/ASTM D2386-2003, *Test Method for Freezing Point of Aviation Fuels* (revision of ANSI/ASTM D2386-2001) – May 10, 2003.
- ANSI/ASTM D2880-2003, *Specification for Gas Turbine Fuel Oils* (revision of ANSI/ASTM D2880-2001) – May 10, 2003.
- ANSI/ASTM D2881-2003, *Classification of Metal Working Fluids and Related Materials* (new standard) – May 10, 2003.
- ANSI/ASTM D6792-2003, *Guide for a Quality System in Petroleum Products and Lubricants Testing Laboratories* (revision of ANSI/ASTM D6792-2002) – May 10, 2003.
- ANSI/ASTM E1186-2003, *Practices for Air Leakage Site Detection in Building Envelopes and Air Retarder Systems* (new standard) – April 10, 2003.
- ANSI/ASTM E1300-2003, *Practice for Determining Load Resistance of Glass in Buildings* (new standard) – April 10, 2003.
- ANSI/ASTM E2239-2003, *Practice for Record Keeping and Record Preservation for Lead Hazard Activities* (revision of ANSI/ASTM E2239-2002) – April 10, 2003.
- ANSI/IEEE 1048-2003, *Guide for Protective Grounding of Power Lines* (new standard) – June 19, 2003.
- ANSI/UL 913-2002, *Standard for Safety for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations* (revision of ANSI/UL 913-2002) – June 23, 2003.

**The following international standards are currently in coordination** (comment due dates follow each entry):

- ISO/DIS 3724, *Hydraulic fluid power – Filter elements – Determination of resistance to flow fatigue using particulate contaminant* – October 16, 2003.
- ISO/DIS 5168, *Measurement of fluid flow – Evaluation of uncertainties* – October 1, 2003.
- ISO/DIS 7240-6, *Fire detection and alarm systems – Part 6: Point-type fire detectors for detection of carbon monoxide* – August 9, 2003.
- ISO/DIS 18275, *Welding consumables – Covered electrodes for manual metal arc welding of high strength steels – Classification* – September 18, 2003.

- ISO/DIS 22611, *Clothing for protection against infectious agents – Test method for resistance to penetration by biologically contaminated aerosols* – October 19, 2003.

**The following newly published international standards are available:**

- ISO 10006:2003, *Quality management systems – Guidelines for quality management in projects*.
- ISO 10007:2003, *Quality management systems – Guidelines for configuration management*.
- ISO 10972-3:2003, *Cranes – Requirements for mechanisms – Part 3: Tower cranes*.

## American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

### Acoustical Society of America (ASA)

**Office:** 35 Pinelawn Road, Suite 114E  
Melville, NY 11747  
**Contact:** Susan Blaeser  
**Fax:** 631-390-0217  
**E-mail:** [sblaeser@aip.org](mailto:sblaeser@aip.org)

- S2.1-200x, *Mechanical Vibration and Shock Vocabulary* (revision of ANSI S2.1-2000, ANSI/ISO 2041-1990).

### American Gas Association (AGA)

**Office:** 400 North Capitol Street, NW  
Washington, DC 20001  
**Contact:** Paul Cabot  
**Fax:** 202-824-9122  
**E-mail:** [pcabot@aga.org](mailto:pcabot@aga.org)

- *National Fuel Gas Code* (same as ANSI/NFPA 54) (revision of ANSI Z223.1-2002).

### American Society of Mechanical Engineers (ASME)

**Office:** Three Park Avenue, 20th Floor  
New York, NY 10016  
**Contact:** Silvana Rodriguez-Bhatti

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**Fax:** 212-591-8501  
**E-mail:** [rodriguezs@asme.org](mailto:rodriguezs@asme.org)

- ASME B31.9-200x, *Building Services Piping* (revision of ANSI/ASME B31.9-1996).

### American Welding Society (AWS)

**Office:** 550 N.W. LeJeune Road  
Miami, FL 33126  
**Contact:** Leonard Connor  
**Fax:** 305-443-5951  
**E-mail:** [lconnor@aws.org](mailto:lconnor@aws.org); [roneill@aws.org](mailto:roneill@aws.org)

- AWS A5.24/A5.24M-200x, *Specification for Zirconium and Zirconium Alloy Welding Electrodes and Rods* (revision and redesignation of ANSI/AWS A5.24-90 (R1997)).
- AWS B2.1-200x, *Specification for Welding Procedure and Performance Qualification* (revision of ANSI/AWS B2.1-2000).
- AWS C7.1-200x, *Recommended Practices for Electron Beam Welding* (revision of ANSI/AWS C7.1-1999).
- AWS C7.4-200x, *Process Specification and Operator Qualification for Laser Beam Welding* (new standard).
- AWS D1.1/D1.1M-200x, *Structural Welding Code – Steel* (revision of ANSI/AWS D1.1/1.1M-2002).

### American Nuclear Society (ANS)

**Office:** 555 North Kensington Avenue  
La Grange Park, IL 60526-5592  
**Contact:** Shawn Coyne-Nalbach  
**Fax:** 708-352-6464  
**E-mail:** [Scoyne-Nalbach@ans.org](mailto:Scoyne-Nalbach@ans.org)

- ANS 52.1-200x, *Nuclear Safety Criteria for the Design of Boiling Water Reactor Plants* (new standard).
- ANS 58.3-200x, *Physical Protection for Nuclear Safety-Related Systems and Components* (revision of ANSI/ANS 58.3-1992 (R1998)).

### Institute of Electrical and Electronics Engineers (IEEE)

**Office:** 445 Hoes Lane, P.O. Box 1331  
Piscataway, NJ 08855-1331  
**Contact:** Catherine Berger  
**E-mail:** [C.berger@ieee.org](mailto:C.berger@ieee.org)

- IEEE 1045-200x, *Standard for Software Productivity Measurement* (revision of ANSI/IEEE 1045-1993 (R2003)).
- IEEE 1584-200x, *Guide for Performing Arc-Flash Hazard Calculations* (revision of ANSI/IEEE 1584-2002).
- IEEE 1650-200x, *Standard Test Methods for Measurement of Electrical Properties of Carbon Nanotubes* (new standard).
- IEEE 2200-200x, *Standard for Baseline Operating Systems Security™ (BOSS™)* (new standard).

### Institute of Nuclear Materials Management (INMM)

**Office:** 109 Caldwell Drive  
Oak Ridge, TN 37830  
**Contact:** Joree' O'Neal  
**Fax:** 8650576-6675  
**E-mail:** [onealj@orau.gov](mailto:onealj@orau.gov)

- N14.1-2001 Addendum 2-200x, *Uranium Hexafluoride – Packaging for Transport* (supplement to ANSI N14.1-2001)

### National Electrical Manufacturers Association (NEMA)

**Office:** 1300 North 17<sup>th</sup> Street, Suite 1847  
Rosslyn, VA 22209  
**Contact:** Jean French  
**Fax:** 703-841-3352  
**E-mail:** [jea\\_french@nema.org](mailto:jea_french@nema.org)

- NEMA AB 4-200x, *Guidelines for Inspection and Preventive Maintenance of Molded Case Circuit Breakers Used in Commercial and Industrial Applications* (revision of ANSI/NEMA AB 4-2000).

### NSF International (NSF)

**Office:** P.O. Box 130140  
Ann Arbor, MI 48113-0140  
**Contact:** Donna Backus  
**Fax:** 734- 827-6831  
**E-mail:** [backus@nsf.org](mailto:backus@nsf.org)

- NSF 241-200x, *Treatment of Water Used to Clean Building and Equipment Contaminated with Biological Agents* (new standard).
- NSF 242-200x, *Treatment of Water Used to Clean Building and Equipment Contaminated with Chemical Agents* (new standard).

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- NSF 243-200x, *Treatment of Water Contaminated with Biological or Chemical Agents in a Water Distribution System* (new standard).

#### Underwriters Laboratories, Inc. (UL)

**Office:** 333 Pfingsten Road  
Northbrook, IL 60062-2096  
**Contact:** Mitchell Gold  
**Fax:** 847-313-2850  
**E-mail:** [Mitchell.Gold@us.ul.com](mailto:Mitchell.Gold@us.ul.com)

- UL 2431-200x, *Standard for Durability Tests for Fire Resistive Materials Applied to Structural Steel* (new standard).
- UL 2225-200x, *Standard for Safety for Metal-Clad Cables and Cable-Sealing Fittings for Use in Hazardous (Classified) Locations* (new standard).

#### ASTM International

Standards activities of ASTM International (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691, fax 610-832-9667. ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585, fax 610-832-9555. Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672, fax 610-832-9666. Additional information on ASTM activities is available on the ASTM Web site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

**The following ASTM standards are currently in coordination** (the due date for all items is August 10, 2003):

- D 5831-02, *Test Method for Screening Fuels in Soils* – revised standard.
- D 6233-98, *Guide for Data Assessment for Environmental Waste Management Activities* – revised standard.
- E 21-92, *Test Methods for Elevated Temperature Tension Tests of Metallic Materials* – revised standard.

**The following newly published standards are available from ASTM:**

- B 826-97, *Test Method for Monitoring Atmospheric Corrosion Tests by Electrical Resistance Probes* – revised standard.
- C 781-02, *Practice for Testing Graphite and Boronated Graphite Components for High-Temperature Gas-Cooled Nuclear Reactors* – revised standard.
- D 4844-03, *Guide for Air Monitoring at Waste Management Facilities for Worker Protection* – revised standard.
- D 6113-03, *Test Method for Using a Cone Calorimeter to Determine Fire-Test-Response Characteristics of Insulating Materials Contained in Electrical or Optical Fiber Cables* – revised standard.
- E 84-03, *Test Method for Surface Burning Characteristics of Building Materials* – revised standard.
- F 903-03, *Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Liquids* – revised standard.

#### Comments, Questions, and Addresses

**Comments:** If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), Phone 301-903-2856, Fax 301-903-6172, [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov).

**Addresses:** *Standards Actions* and *The Standards Forum* are electronic newsletters available on the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing and e-mail addresses, please contact Debbie Queener, ORNL, Phone 865-574-0398, Fax 865-574-8481, [queenerds@ornl.gov](mailto:queenerds@ornl.gov).

**Technical Standards Activities:** The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 865-574-0398, [queenerds@ornl.gov](mailto:queenerds@ornl.gov).